

# Work Order ID 53454

November 6, 2009 8:19:45 AM



Page 1

Item ID: D3518-3

Revision ID: B

Item Name: Stainless Steel Ball Joint Rod End

Start Date: 05/11/2009 Start Qty: 30.00

Required Date: 13/11/2009 Req'd Qty: 30.00

Reference:

Approvals: Process Plan: 13 Date: 04/11/05 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \_\_\_\_\_ Stop \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3518	Rev B								

100

0.00



PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 10721 ☐ Purchase Part Number: 2458K14 ☐ Supplier: Mc Master  
Carr ☐ Certificate of conformity is required

CL 09/11/06 (30)

110

0.00



Receive & Inspect for Damage & Mat'l Certs

Packaging

Memo

0.00

Packaging

Ensure certificate of conformity is attached

R 09/11/10 (30)

120

0.00



QC6- Inspect dimensions to drawing

QC

Memo

0.00

Quality Control

2) S0211/16

counter (30) f

**Work Order ID 53454**

November 6, 2009 8:19:46 AM



Page 2

Item ID: D3518-3

Revision ID: B

Item Name: Stainless Steel Ball Joint Rod End

Start Date: 05/11/2009 Start Qty: 30.00

Required Date: 13/11/2009 Req'd Qty: 30.00

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start  
Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Identify as per dwg & Stock Location: _____	0.00							
Packaging Packaging	Memo	0.00							9/6/16 (300) SP
140 	QC21- Final Inspection - Work Order Release	0.00							
QC Quality Control	Memo	0.00							09/11/16 JF

JF 09-11-16

# Picklist Print

Page 1

November 6, 2009 8:19:50 AM

Work Order ID: 53454



Parent Item: D3518-3RevB



Parent Item Name: Stainless Steel Ball Joint Rod End



Start Date: 05/11/2009

Required Date: 13/11/2009

Comments:

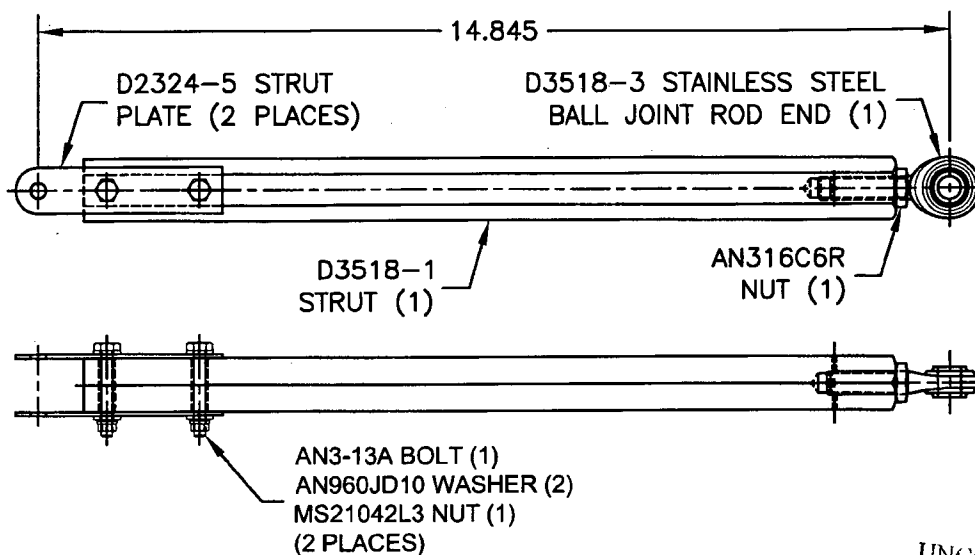
Start Qty: 30.00

Required Qty: 30.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
2458K14  rod end		Purchased	No			100	Each	0.0000	30.0000 		9/14/10 (30)	



DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>PH</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3518	REV. B SHEET 1 OF 3
DATE 06.10.23		TITLE BASKET (A119) STRUT	SCALE 1:3
A	06.06.21	NEW ISSUE	
B	06.10.23	RE-DESIGN	



**D3518-041 STRUT ASSEMBLY**

QTY -041	Part Number	Description
X	D3518-041	STRUT ASSEMBLY
2	D2324-5	STRUT PLATE
1	D3518-1	STRUT
1	D3518-3	STAINLESS STEEL BALL JOINT ROD END
2	AN3-13A	BOLT
1	AN316C6R	NUT
4	AN960JD10	WASHER
2	MS21042L3	NUT

**NOTES:**

- 1) IDENTIFY WITH DART P/N "D3518-041" USING FINE POINT PERMANENT INK MARKER

RELEASED

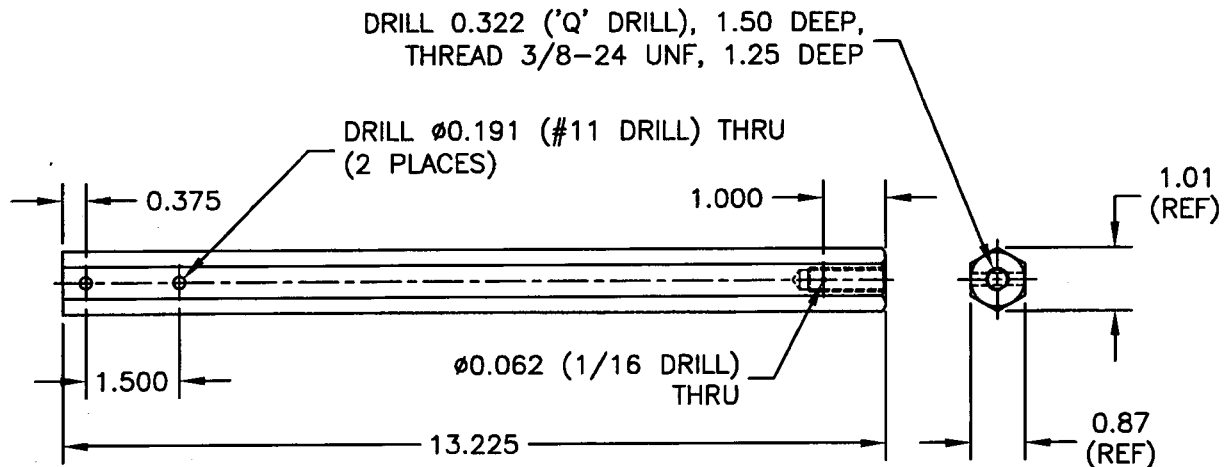
06.11.17 *[Signature]*

Copyright © 2006 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

**DART**

DESIGN <i>B</i>	DRAWN BY <i>B</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>PH</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3518	REV. B SHEET 2 OF 3
DATE 06.10.23	TITLE BASKET (A119) STRUT		SCALE 1:3

**D3518-1 STRUT****NOTES:**

- 1) MATERIAL: M6061-T6 (OR 6061-T651/T6510/T6511/T62) ALUMINUM HEX BAR PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR PER AMS-QQ-A-200/8 (OR AMS 4160) (REF DART MATERIAL SPEC M6061T6H0.875)
- 2) FINISH: ACID ETCH AND ALODINE PER DART QSI 005 4.1 POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES 0.005 TO 0.010 MAX

RELEASED

06.11.17 *[Signature]*

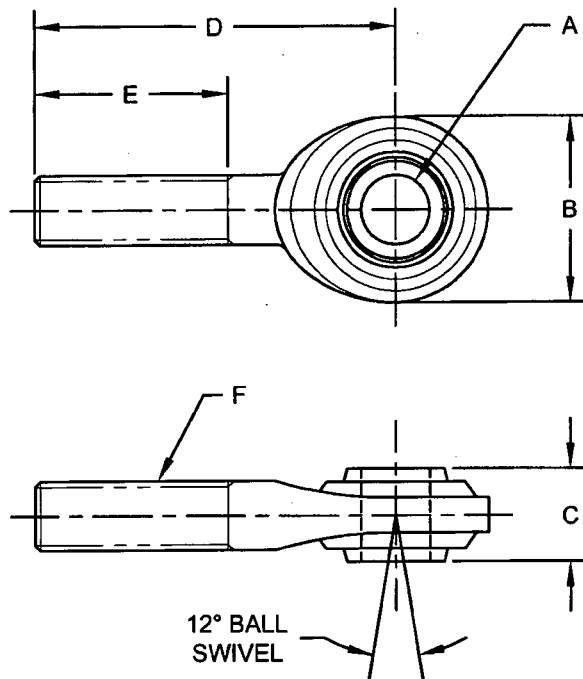
Copyright © 2006 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN <i>B</i>	DRAWN BY <i>B</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>PH</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3518	REV. B SHEET 3 OF 3
DATE 06.10.23		TITLE BASKET (A119) STRUT	SCALE 1:1

## SPECIFICATION CONTROL DRAWING



53454

DART P/N	A	B	C	D	E	F	LOAD*	POSSIBLE SUPPLIER
D3518-3	0.375	1.00	0.50	1.938	1.25	3/8-24 UNF, RH	4012	McMASTER-CARR, P/N 2458K14

\* Indicated load is Static Radial Load Capacity in lbs

### NOTES:

- 1) TYPE: MALE THREADED SHANK CARBON-FIBER-REINFORCED PLASTIC RACE BALL JOINT ROD END
- 2) MATERIAL: ZINC PLATED STEEL HOUSING BALL WITH PTFE LUBRICATED CARBON-FIBER-REINFORCED PLASTIC RACE.
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES

RELEASED

06.11.17 *[Signature]*

Copyright © 2006 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



# McMASTER-CARR®

200 Aurora Industrial Parkway  
Aurora OH 44202  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
PO10721

Page 1

McMaster-Carr Number  
3956673-01

11/09/

Line	Description	Ordered	Shipped
1	<b>2458K14</b> Carbon-Fiber Race Ball Joint Rod End, 3/8"-24 Right-Hand Male Shank, 4012 Pound Load Capacity	<u>30</u> Each	30

3 - 483 - 03 04 - 72 K141 30 EA

Unit Price: \$5.39  
Extended Price: \$161.70

### Charges for this shipment

Merchandise Amount:	\$161.70
Sales Tax:	\$8.09
<b>Total:</b>	<b>\$169.79</b>

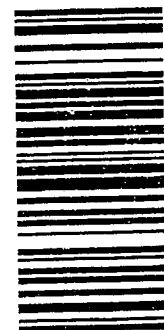
*S*  
01/11/16

Dart Aerospace Ltd

E

Cycle

17



9031929553976





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO10721**

Purchase Order Date 11/06/09

PO Print Date 11/06/09

Page Number 1 of 1

**Order From :**

VU-MCM001



MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

<b>Contact Name</b>		<b>Buyer</b>	Chantal Lavoie
<b>Vendor Phone</b>	330 995 5500	<b>Requisition Nbr</b>	
<b>Vendor Fax</b>	330 995 9600	<b>Tax Resale Nbr</b>	10127-2607
<b>Vendor Account Nbr</b>		<b>Terms</b>	Net 30
		<b>Currency</b>	USD
		<b>FOB</b>	

**Ship To :** DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	2458K14	rod end	11/11/09 Yes	30.00 Each	Purolator ground	\$5.4785	\$164.3

**Special Inst:** AS PER DWG D3518 REV. B  
B53454  
MCMaster P/N: 2458K14

**PO Total:** \$164.3

CERTIFICATE OF CONFORMITY  
REQ'D UPON DELIVERY

**Change Nbr:** 1

**Change Date:** 11/06/09

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable